

Reducing Conditions in the Electric Smelting
of Iron Ores, by A. Murakami, et al.

JAPANESE, per, Tetsu to Hagane, Vol XLVI, No 10,
1960, pp 1140-1142.

HB 5947

Sci-M/M

Aug 63

343,486

Considerations Regarding the Reducing Process in
Electric Smelting, by A. Murakami, K. Takei,
et al.

JAPANESE, per, Tatsu to Hagano, Vol XLVI, No 10,
1960, pp 1142-1144.

HB 5948

Sci-Materials & Metallurgy
July 63

235,797

Studies of the Removal of Ferric-Oxide-Enriched
Dust From Open-Hearth Checkers, by T. Kinoshita,
et al.

JAPANESE, per, Tetsu to Hagan, Vol. XLVI, No 10,
1960, pp 1180, 1181.

HB 5101

Sci - Chem

Apr 61

147,426

Operating Results of the New Tobata [Japan] Basic
Oxygen [LD] Plant, by Y. Mitarashi, S. Morita.

JAPANESE, per, Tetsu to Hagane, Vol XLVI, No 10,
1960, pp 1180-1182.

ND 5247

Sci

Sep 61

170.124

Analysis of Some Factors in LD Steelmaking [by
Oxygen Top Blowing], by M. Kishida, et al.

JAPANESE, per, Tetsu to Hagane, Vol XLVI, No 10,
1960, pp 1182-1185.

HB 5097

Sci - Min/Met

Apr 61

147,469

Composition of the Hot Metal for the Oxygen Top-
Blowing LD Process, by M. Oishi, et al.

JAPANESE, per, Tetsu to Hagane, Vol XLVI, No 10,
1960, pp 1185-1187.

HB 5096

Sci - Min/Met

Apr 61

147,476

Sulfur Balance in a 50-Ton Oxygen Top-Blown LD
Furnace, by S. Masahara, et al.

JAPANESE, per, Tetsu to Hagane, Vol XLVI, No 10,
1960, pp 1187-1189.

HB 5095

Sci - Chem

Apr 61

147,471

On the Efficient Use of the Teeming Ladles
in a Basic Oxygen LD Plant, by S.
Machida, S. Morita, H. Nakagawa.

JAPANESE, per, Tetsu to Hagane,
Vol XLVI, No 10, 1960, pp 1189-1191.

HB 5279

Sci - MEin/Met
Jun 62

194,388

Treatment of Some Melts With Low Ultrasonic Energy, by Y. Nagano, K. K. Nakai.

JAPANESE, per, Tetsu To Hagane,
Vol XVI, No 10, 1960, pp 1202-1211

HB 5217

Sci - Electron
Dec 61

175,000

Relationship Between the Carbon Elimination
Reaction and the Nitrogen Removal From Liquid
Steel in Oxygen Steelmaking Processes, by S.
Machawa, et al.

JAPANESE, per, Tetsu to Hagane, Vol XLVI, No 10,
1960, pp 1233, 1234.

HB 5102

Sci - Chem
Apr 61

147,433

On the Prevention of Cracks on Low-Carbon Rimmed
Slabs for a Strip Mill, by T. Tsukamoto, Y. Nagata,

JAPANESE, per, Tetsu to Hagane, Vol XLVI, 1960,
pp 1859-1861.

BISI 2779

Sci ---
FE --- Japan
Engr
Apr 63

229,467

Properties of Cold-Rolled Sheet From Oxygen-Top
Blown [LD] Steel, by B. Kawasaki, et al.

JAPANESE, per, Tetsu to Hagané, Vol XLVI, No 10,
1960, pp 1275, 1276.

HB 5072

Sci - Chem

Apr 61

147, 452

Effect of Aluminum Nitride on Crack Sensitivity of the Heat-Affected Zone in Welded Steel, by Shigao Hasebe.

JAPANESE, per, Tetsu to Hagane, Vol XLVI, No 10, 1960, pp 1286-1289.

HB 5556

Sci - Min/Met
Apr 62

190, 713

Anodic Marking of Differentially Coated Electrolytic
Tin Plate, by O. Yamabu, T. Watanabe.

JAPANESE, per, Tetsu to Hagane, Vol XLVI, 1960,
pp 1294-1296.

BIBI 3067
CRL/T. 1250X

Sci - Phys
Feb 63

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224, 235

Attack of Hydrogen on Oil Refinery Steels, by
M. Hasegawa, S. Fujinaga.

JAPANESE, per, Tetsu to Hagane, Vol XLVI, No 10,
1960, pp 1349-1352.

HB 5107

Sci - Chem

Apr 61

147,431

Mechanism of Longitudinal Cracking on Surface of
Continuous-Cast Billets, Part III, by Y. Aketa,
K. Ushijima.

JAPANESE, per, Tetsu to Hagane, Vol XLVI, No 12,
1960, pp 1733-1740.

HB 5108

164,328⁹

Sci - Engr

Aug 61

Mechanism of Internal Crack Formation in
Continuous-Cast [Steel] Billets, Report
IV, by K. Ushijima.

JAPANESE, per, Tetsu to Hagan,
Vol XLVII, No 2, 1961, pp 116-124.

HB 5220

Sci - Engr

Jan 62

178, 325

Change in Physical Properties During Tempering
of Type Fe-Co-Cr-Ni Base Heat-resisting Alloy,
LCN-155., by Imai Yunoshin, Masumoto Tsuyoshi.

JAPANESE, per, Tetsu-to-Hangagane, Vol XLVII,
1961, pp 139-145.

CNN 22A1

Sci - M/M
Feb 63

222,512

Study of the Direct Reduction of Titaniferous
Iron Ores in a Rotary Furnace, by A. Pickard,
T. Asada.

RESEARCH, per, Titan to Hagane,
Vol XLVII, No 3, 1961, pp 261-263.

HB 5234.

Est - Engr, Mln/Dist
Jun 62

199,409

63-20071

Simose, Takaaki and others.
ON THE REMOVAL OF ZINC IN DUST FROM AN
OPEN HEARTH FURNACE BY CHLORINATING
ROASTING. Pt. 2 of Research on the Treatment of the
Iron Industry Dust. Jul 63 [6p] 3refs
Order from SLA \$1.10 63-20071

I. Simose, T.
II. Title: Research...

Trans. of Tetsu to Hagane (Japan) 1961, v. 47, no. 3,
p. 286-288.

DESCRIPTORS: *Dusts, Iron industry. Open hearth
furnaces, Separation, Calcium compounds, Chlorides,
Magnesium compounds, Reduction (Chemistry),
Charcoal, Smelting. *Zinc compounds.

An experiment was performed to remove zinc in open
hearth furnace dust by chlorinating roasting with the use
of calcium chloride and magnesium chloride. With the
use of calcium chloride, the Zn removal increased
from 17.0 to 60.7% as the roasting temperature in-
(Metallurgy, TT, v. 10, no. 11) (over)

Office of Technical Services

Expansion of the Basic Oxygen LD Plant
at Tobata, Yawata Iron and Steel Works,
by S. Marita, N. Makiwaki.

JAPANESE, per, Tetsu to Hagane, Vol XLVII,
No 3, 1961, pp 339-341.

HB 5225

Ext. - Min/Met
Jm 62

199,387

Some Problems of the Mechanical Operation
of a Basic Oxygen (LD) Plant, by S. Morita,
M. Sato.

JAPANESE, per, Tetan ^To Hagane, Vol XLVII,
No 3, 1961, pp 341-343.

HB 5226

Sci - Engr
Dec 61

175,000

On the Wear Pattern for the Linings in
Basic Oxygen LD Furnaces, by H. Ohta,
K. Sugita.

JAPANESE, per, Tetsu To Hagan, Vol. XLVII,
No 3, 1961, pp 343-345.

HB 5227

Sci - Eng
Dec 61

175,005

Production of Quality Low-Phosphorus,
High-Carbon Steel by the Basic Oxygen Pro-
cess [LD], by S. Maehara, et al.

JAPANESE, per, Tatsuo To Hagano, Vol XLVIII
No 3, 1961, pp 345-348.

HB 5228

Sci - Chem
Dec 61

175,007

Production of Ship & Plate Steel in the
Basic Oxygen LD Furnace, by S.
Maehara, et al.

JAPANESE, per, Tetsu To Hagane,
Vol. XLVII, No 3, 1961, pp 348-350.

HB 5229

Sci - Engr

Feb 62

182.772

Determination of the End Point in the LD
Basic Oxygen Process, by M. Kishida, et al.

JAPANESE, per, Tetsu to Hagane, Vol XLVIII,
No 3, 1961, pp 350-352.

HB 5210

Sci - Chem
Oct 61

Study of Design and Flowing Conditions of
Basic Oxygen LD Furnace, by I. Tajiri,
et al.

INTERJAPANESE, per, Tetsu to Haganne,
Vol XLVII, No 3, 1961, pp 352-353.

HB 5231

Sci - Engr
Jun 62

199,393

Aerodynamic Study of the Oxygen top-blown
LD Furnace, by H. Hashimoto, et al.

JAPANESE, per, Tetsu to Hagane, Vol XLVII,
No 3, 1961, pp 353-355.

EB 5232

Sci - Engr
Dec 62

217,427

Dephosphorization in a Basic Oxygen LD
Furnace Studied in Relation to Changes in
the Physical Blowing Conditions, by S.
Watanabe, M. Oishi, et al.

JAPANESE, per, Tetsu to Hagane,
Vol XLVII, No 3, 1961, pp 355-356.

RB 5233

199,386

Sol - Engr
Jan 62

EFFECT OF SOME FACTORS ON PRIMARY COOLING,
BY K. USHIJIMA.

JAPANESE, PER, TETSU TO HAGANE, VOL XLVII, NO 3,
1961, PP 390-391.

HB 5019

SCI - MIN/MET
AUG 62

206,986

245, 148
Extraction of Nonmetallic Inclusions ~~ribbons~~ from
Steel by Using an Ultrasonic Drill, by M. Nomura.

JAPANESE, per, Tetra: To Hagane, Vol XLVII, No 3,
1961, pp 519-21.

HB 6063

Mat & Met

Oct 63

OCT 63

345, 153

245, 148

Loss of Nitrogen by Nitrogen-Containing
High Chromium-Iron Alloys on Heating at
High Temperatures, by S. Okamoto, et al.

JAPANESE, per, Tetsu To Hagane, Vol XLVII,
No 3, 1961, pp 548-550.

HB 5284

Sci - Chem

Jan 62

178, 327

Effect of Solution Treatment on High-Temperature
Properties of 18-8Ti Steel, by K. Ono, et al.

JAPANESE, per, Tetsu to Hagane, Vol XLVII, No 3,
1961, pp 552-554.

HB 5170

Sci

170,134

Sep 61

Effect of Delta Ferrite on Properties of Chrome-
Nickel Stainless Steels, by R. Nakagawa, Y. Otaguro.

JAPANESE, per, Tetsu to Hagane, Vol XLVII, No 3,
1961, pp 554-556.

MB 5173

OTS 67-35837

Sci

170,133

Sep 61

Aging Embrittlement of High Chrome-Nickel
Steels, Study I, by T. Tsuchimoto, et al.

JAPANESE, per, Tetsu to Hagane, Vol XLVII,
No 3, 1961, pp 556-558.

HB 5291

Sci - Min/Met
Dec 61

175, 209

Hot Ductility of High Chrome-Nickel Steels,
Study II, by F. Tsukamoto, T. Suzuki.

JAPANESE, par, Tetsu To Hagane, Vol XLVII.
No 3, 1961, pp 558-560.

BB 5336

Sci - Min/Met
Dec 61

175.010

Fatigue Strength of High Chrome-Nickel
Steels at Elevated Temperatures, Study III,
by F. Tsukamoto, et al.

JAPANESE, per, Tetsu To Hagane, Vol XLVIII,
No 3, 1961, pp 561-568.

EB 5337

Sci - Min/Met
Dec 61

173, 011

High-Temperature Properties of 316L
Type Stainless Steel in Nitrogen Under
Increased Pressure, by M. Chenoto, et al.

JOURNAL, Vol. 1, Topic: To Page, Vol. 1, No. 3, 1961, pp. 563-564.

HB 5338

Sci - Chem
Dec 61.

104, 977

EFFECT OF Vanadium, Aluminum and Zirconium Upon
the Properties of 18% Cr, 12% Ni Austenitic
Stainless Steel, by R. Nakagawa, Y.
Otaguro. ---

JAPANESE, per, Tetsu to Hagane, Vol. XLVII,
No. 6, 1961, pp 828-833.

HB 5594

Sol. - Min/Mot
Dec 62

217.4.25

Automatic Control System of a Dwight-Lloyd Sintering Machine and Recent Trends Abroad, by K. Tsujihata, S. Miyagawa, et al.

JAPANESE, per, Tetsu to Hagane, Vol XLVII, No 7, 1961, pp 891-896.

HB 5278

Sci-M/M

Aug 63

343,473

On Widening the Applicability of Water-Cooled Basic-Oxygen LD Furnaces, by R. Sato, N. Tahata.

JAPANESE, per, Tetsu to Hagane, Vol LVII, No 10, 1961, pp 1348-1350

HB 5356

Sci-M/M

Aug 63

Sp 3,492

On the Propagation of Hot Metal in the
Charge of the Kuroda (Japan) Basic Oxygen
Open Furnace, by K. Watabayashi, M. Tokuda.

JAPANESE, per. Tetsu to Hoagun, Vol XXIV
No 10, 1961, pp 1355-1357.

HB 5599

Bel - Engr
Dec 62

217 4-7

Effect of Conditions of Fluxing on the Dephosphorization
of Basic-Oxygen LD Steel, by K. Segawa.
JAPANESE, per, Tetsu to Hagane, Vol XLVII, No 10,
1961, pp 1357-1359.
HB 5685

Sci - Engr
Nov 64

268,474

Revision of Freedom of Information Act
Request to Release Original Source Data,
by E. Lincoln, et al.

ALBANY, 1981, 10000 100 pages, 100 100 100,
No 20, 1981, 100 100 100 100.

100 100 100

100 100 100, 100
100 100

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Study on High Cr-Ni Austenitic Steels, (Part 1
(Hot-twist Ductility of High Cr-Ni Austenitic
Steels), by F. Tsukamoto, T. Suzuki.
JAPANESE, per, Tetsu to Hagane, Vol 47, No 12,
December 1961, pp 1892-1898.
BISI 5811

Sci-Mat
Apr 69

379,760

ANALYSIS of Metal Yield From ...
Sarnano, by T. Iwoka, K. Minai

JAF-USE, par, Tetsu to Hagane ...
1901, pp 1302, ~~1303~~ 1303.

in 5079

See 100
top 61

Effect of Columbium on Grain Size of Steel,
by K. Maritani, A. Miyamoto.

JAPANESE, Met., Tetsu to Hagane,
Vol XLVII, No 10, 1961, pp 1512-1514.

HB 5619

Sci. Min/Met
Jun 62

199,394

Identification of ROCKET-TRAIL INCLUSIONS
With the X-Ray Microanalyzer, by Iku
Uchiyama.

JAPANESE, per, Tetsu To Nagano, Vol XLVII,
No 10, 1961, pp 1516-1518.

5

HB 5546

Sci - DIL/MG
Apr 62

190, 7/2

62-22967

Aoki, K. and others.

EFFECT OF NONMETALLIC INCLUSIONS IN STEEL
PLATES ON THE ULTRASONIC SIGNAL PATTERN.

Aug 62, 2000 words.

Order from HB \$5.90

HB-5578

I. Aoki, K.

II. HB-5578

III. Bratcher, Henry,
Altadena, Calif.Trans. of Tetsu to Hagane (Japan) 1961, v. 47, no. 10
[p. 1518-1520].DESCRIPTIONS: *Ultrasonics, Sheets, *Steel, Impuri-
ties, Mechanical properties.

(Metallurgy--Ferrous Metals, TT, v. 9, no. 8)

Office of Technical Services

Studies of Semi-Killed Steel Ingots.
III - Decarboxylation Inclusions in Semi-killed
Steel Ingots, by T. Kato, et al.
JAPANESE, per, Tetsu-to-Hagane, Vol 48, No 2,
1962, pp 117-123.
*HISI 7737

sci/ materials
nov 69

Automation of a Dwight-Lloyd Type Sintering Plant at
Himohata, by Y. Shimomura, M. Yasunaga.
JAPANESE, per, Tetsu to Hagane, Vol 48, No 1, 1962,
pp 363-365.
EID 6021

FE-Jap
Sci/M&M
Apr 65

277,112

FLUIDIZED-BED REDUCTION OF IRON ORES WITH NATURAL
GAS, BY M. TANAKA, M. OKUYAMA.

JAPANESE, PER, TETSU TO HAGANE, VOL XLVIII,
NO 4, 1962, PP 418, 419.

HB 5684

SCI - MIN/MET
OCT 62

2128,004

63-20072

Kumli, Kazuo and others.
ON THE REMOVAL OF ZINC IN DUST FROM AN
OPEN HEARTH FURNACE BY REDUCING EVAPORA-
TION. Pt. 3 of Research on the Treatment of the Iron
Industry Dust. Jul 63 [6p] 6refs
Order from SLA \$1.10 63-20072

Trans. of Tetsu to Hagane (Japan) 1962, v. 48, no. 4,
p. 452-453.

DESCRIPTORS: "Dusts, Iron industry, "Zinc com-
pounds, Oxides, Separation, Open hearth furnaces,
Evaporation, Reduction (Chemistry), Charcoal.

As a method of Zn removal from the open hearth
furnace dust, charcoal was used as a reducing agent.
At a roast-temperature of 1200°C, with 10% charcoal,
the Zn removal reached 77% and at the same time, the
increase in reduction of Pb and amount of Fe was de-
(Metallurgy, TT, v. 10, no. 11) (over)

I. Kumli, K.
II. Title: Research...

Office of Technical Services

Matsuura, Minoru and Kumi, Kazuo.

PROCESS OF ZINC REMOVAL FROM OPEN HEARTH FURNACE DUST. Pt. 4 of Research on the Treatment of the Iron Industry Dust. Jul 63 [6p] 1 ref
Order from SLA \$1.10

63-20070

Trans. of Tetso to Hagane (Japan) 1962, v. 48, no. 4, p. 453-455.

DESCRIPTORS: *Dusts, Iron industry, Open hearth furnaces, *Zinc compounds, Oxides, Separation, Pellets, Coke, Rotary furnaces.

In this method of removing Zn from open hearth furnace dust, a product of semi-reduced Luppen of about 60% total iron (40% metallic Fe), Zn < 3.0%; and its by-products (about 85% of zinc oxide) were obtained. This zinc oxide may be effectively utilized and therefore, it is well justified budget-wise. An important reason for (Metallurgy, TT, v. 10, no. 11) (over)

63-20070

- I. Matsuura, M.
- II. Kumi, K.
- III. Title: Research...

Office of Technical Services

Study of the Dephosphorization in the
Basic Oxygen LD Furnace, by T.
Kato, et al.

JAPANESE, per; Taken to English.
Vol. XLVIII, No 4, 1962, pp 464-467.

HB 5675

Sci - Engt
Dec 62

717.0 35

On the Control of the Steel Bath
Temperatures in the Tobata (Japan)
Basic LD Oxygen Furnaces, by
Y. Shimogo, et al.
JAPANESE, per, Tetsu to Hagane, Vol 48,
No 4, 1962, pp 467-468.
ID 5705

EE-Japan
Sci/1346
Jun 65

200,070

ON THE EFFECT OF FLUORSPAR IN THE BASIC OXYGEN LD
STEELMAKING PROCESS, BY S. WATANABE, ET AL.

JAPANESE, PER, TETSU TO HAGANE, VOL. XLVIII, NO 4,
1962, PP 468-470.

HB 5676

SCI - MIN/MET, ENGR
OCT 62

212,089

On the Production of Weldable High-Tensile Steel (Weld-Ten), by the Basic Oxygen LD Process, by K. Wakabayashi, M. Takeda.

JAPANESE, per, Tetsu to Hagané, Vol XLVIII, No 4, 1962, pp 470-471.

HB 5676

Sci - Min/Sec
Dec 62

219, 4 - 6

Performance of Tar-Bonded Magnesite Brick
Linings of the Amagasaki Basic Oxygen Furnace,
by Y. Aoyama, H. Usui, A. Matsunaga.

JAPANESE per, Tetsu to Hagane, Vol XLVIII,
No 4, 1962, pp 472, 473.

HB 5677

Sci-Min/Mat
Jan 63

219,932

Effect of Zirconium on Austenitic Grain Size
in Iron and Steel, by A. Adachi, K. Misukawa.
JAPANESE, per, Tetsu to Hagane, Vol 48,
Apr 1962, pp 663-687.
HISI 4963

314,491

Sci - Methods and Equipment
Dec 66

On the Equilibrium Relations Between Iron and
Exothermic Atmospheres Converted From Propane,
by K. Nagasaki, N. Komuro.
JAPANESE, per, Tetsu to Hagane, Vol XLVIII,
No 10, 1962, pp 1569-1574.
BISI 3531

Sci - M/M
Nov 64

268,681

Improved Open-hearth Refractories and Their Consumption When Injecting Oxygen, by K. Misawa, T. Yamaguchi, et al.

JAPANESE, per, Tetsu to Hagane, Vol XLVIII, No 11, 1962, pp 1322-1324.

HB 6146

Sci - M/M
Apr 64

255,969

Layout and Operation of the Second
Basic Oxygen LD Plant at Tobata (Japan),
by T. Ikeda, et al.
JAPANESE, per, Tetsu to Hagane, Vol 48,
No 11, 1962, pp 1353-1354.
ID 5770

FE-Japan
Sci/Eng
Jun 65

280,963

Use of Cold Pig Iron in the Basic
Oxygen (LD) Furnace, by T. Koide, et al.
JAPANESE, per, Tetsu to Hagane, Vol 48
No 11, 1962, pp 1362-1363.
AB 5765

FE-Japan
Sci/HQ11
Jun 65

280,570

~~SECRET~~

Service Tests on Steel-Teaming Nozzles of Special Design, by Y. Kodaka, et al.

JAPANESE, per, Tetsu to Hagane, Vol XL, No 4, 1962, pp 477-478.

HB 5711

Sci-Min/Met
Jan 63

219,997

Detection of Flaws in Steel Sheet by Ultrasonics, by I. Tajiri, S. Sekino, et al.

JAPANESE, per, Tetsu to Hagane, Vol XLVIII, No 4, 1962, pp 515-517.

HB 5761

Sch-Materials & Metallurgy
July 65

235,791

Rapid Determination of Composition of (Steelmaking)
Slags by Spectro-chemical Analysis, by Y. Abe, et al.,

JAPANESE, per, ~~Tetsu To Hagane~~, Vol XLVIII, No 11, 1962,
pp 536-38.

HB 6058.

Mat. Sci. 63
Oct 63

345, 158

Machinability of Selenium-Alloyed Free-Cutting
Stainless Steel, by T. Ito.

JAPANESE, per, Tetsu To Hanape, Vol XLVIII, No 4, 1964
pp 644-45.

HB 5951

Mat & Met
Oct 63

345,227

On the Corrosion Resistance of Steels in Contact
With Hydrogen Sulfide, by H. Ishizuka, R. Chiba.

JAPANESE, per, Tetsu to ~~NIKKU~~ Hagane, Vol XLVIII,
No 4, 1962, pp 645-647.

HB 6016

Sci-M/M

Aug 63

43478

Effect of Zirconium on Austenitic Grain
Size in Iron and Steel, by A. Adachi.
JAPANESE, per, Tetsu to Hagane, Vol 48,
April 1962, pp 685-687.
*BISI 4963

Sci-MEM
Jul 66

306,492

On the Air Gap Between Billest and Mold, by
K. Ushijima.

JAPANESE, per, Tetsu to Hagane, Vol XXXL,
No 6, 1962, pp 747-752.

HB 5633

Sai-min/~~HB~~et
Jan 63

219,996

CEA-tr-X-528 Uncl.

EFFET DU TITANE ET DU ZIRCONIUM SUR LA FRAGILITÉ
À CHAUD DES ACIERS INOXYDABLES À BAS MANGANESE
POUR RÉACTEURS NUCLÉAIRES. (Effects of Titanium
and Zirconium on the High-temperature Embrittle-
ment of Manganese-base Stainless Steels for
Nuclear Reactors). Masao Kawahata. Translated
into French from Tetsu To Hagane, 48: 763-7
(May 1962). 27p. 92-2-0551

Metallurgy; Reactor Materials; Translations
MC-25

C-25 NP RC Dep.(mc); \$2.60(fs), \$1.01(mf)
JCL

N-3

On Positive Measures for Prevention
of Defects in Continuous-Cast Billets,
Part VII of Study of Continuous Casting
of Steel, by K. S. Uchijima.

JAPANESE, per, Tetsu to Hagané,
Vol. XLVIII, No 7, 1962, pp 845-849.

HB 5666

Sci - Metall
Dec 62

On the Homogeneity of Composition and Structure of ~~Sekihomay~~ Continuous Cast Metals, Report VIII, by Y. Akai, K. Ushijima.

JAPANESE, per, Jorstu to Hagane, Vol. 7, No. 8, 1962, pp 933-940

HB 5670

Sci-16/M
Apr 63

227378

New Technical Developments in Ferro-alloy Production, by
S. Shoitani.

JAPANESE, per, Tetsu-To-Hagane, Vol 48, No 9, 1961, pp
1076-1081.

(GB/209/Aust/CRL/T. 1842)

Sci -

Aug 67

33, 114

Rapid Determination of Composition of (Steelmaking)
Slags by Spectro-chemical Analysis, by Y. Abe, et al.

JAPANESE, per, Tetsu To Hagane, Vol XLVIII, No 11, 1962
pp 536-538.

HB 6058

Mat & Met
Oct 63

Observations on the Injection of Oil Into the
Blast Furnace, by Y. Iijima, et al.

JAPANESE, per, Tetsu to Hagane, Vol XLVIII,
No 11, 1962, pp 1219-1221.

HB 5806

Sci-Min/EE Met
Jan 63

219,435

On the Rate of Fluid-Bed Reduction of Iron
Ores, by A. Okura, Y. Matsushita.

JAPANESE, per, Tetsu to Hagane, Vol XLVIII,
No 11, 1962, pp 1237-1238.

HB 5865

Sci-M/24
Apr 63

229,339

On the Backidation Process in the Nitriding
of Stainless Steel, by T. Kakutani,
T. Matsukura, et al,

JAPANESE, per, Tetsu to Hagane, Vol. 40, No. 11, 1962, pp 1273, 1274

HB 5867

Sci-M/M
Apr 63

11-8-63

Removal of Arsenic From Liquid Iron by Vacuum
Melting, by T. Tottori, M. Ejima

JAPANESE, per, Tetsuo Hagane, Vol XLVIII, No 11,
1962, pp 1294-1295.

HB 5842

Sci-M/M
Apr 63

22 9,372

Chemical Analysis of Nonmetallic Inclusions
After Extraction With an Ultrasonic Drill,
by K. Segawa, et al.

JAPANESE, per, Tetsu to Hagane, Vol XLVIII,
No 11, 1962, pp 1297-1299.

HB 5965

Sci-M/N

343,480

Aug 63

An Example of Materials Control in Steel Plants,
by Ts. Kai, et al.
JAPANESE, per, Tetsu to Hagane, Vol III, No 11,
1962, pp 1321-1322.
HB 6165

Sci-~~XXXX~~Misc
June 64

261,776

Effect of Vacuum Casting on the Quality of Steels for Rolling, Part I, by Y. Kitamura, et al.

JAPANESE, per, Tetsu to Hagane, Vol XLVIII, No 11, 1962, pp 1338-1340.

HB 5807

Sci-Min/Met
Jan 63

219,967

Blurred Steel Ingots Solidified Under Reduced
Pressure, by S. Watanabe, et al.

JAPANESE, per, Tetsu to Hagane, Vol XLVIII, No 11,
1962, pp 1340-1342.

HB 5805

Sci-Min/16rt
Jan 63

219,934

On an Experimental Water-Cooled Basic Oxygen
Furnace, by R. Sato, N. Tahata.

JAPANESE, per, Tetsu to Hagane, Vol XLVII, N
No 10, pp 1346-1348

HB 5355

Sci-Materials & Metallurgy
July 63

235,844

Layout and Operation of Basic Oxygen Furnaces at Muroran,
Japan, Works, by Sh. Toyoda.
JAPANESE, per, Tetsu to Hagane, Vol XLVIII, No 11, 1962,
pp 1354-1356.

HB 5841

Sci - M/M

Mar 64

250,779

Studies of Used Bricks Taken From Basic Oxygen
LD Furnace Linings, by E. Homma, T. Onoda.

JAPANESE, par. Tetsu to Hagano, Vol XLVIII,
No 11, 1962, pp 1359-1362.

HD 5741

Sci Engr

Nov 63

243, 428

On the Melting Power of Coke With Cold Metal
Charges] [in the Oxygen LD Furnace], by
Aoyama, H. Usui.

JAPANESE, Per, Tatsu to Masane, Vol. XLVIII,
No 11, 1962, pp 1363-1364.

HB 5766

Sci-M/M
Jan 64

246,369

Some Problems Arising From the Use of Coke
[in the Basic Oxygen LD Process], by H.Y.
Toyama, et. al.

JAPANESE, per, Tetsu to Hagane, Vol XLVIII,
No 11, 1962, pp 1365-1366.

HB 5767

Sci-M/M
Jan 64

241, 362

On the Behavior of Nitrogen in the Basic Oxygen Steelmaking
Process, by H. Otaki.
~~EX~~JAPANESE, per, Tetsu to Hagane, Vol XLVIII, No 11, 1962,
pp 1371, 1372.

HB 5759

Sci - M/M

Mar 64

250,781

Rate of Carbon Elimination in the Basic Oxygen
LD Furnace, by T. Fuji, S. Ura.

JAPANESE, per, Tetsu to Hagane, Vol XLVIII,
No 11, 1962, pp 1372-1374.

HB 5758

Sci-Win/Met
Jan 63

219,968

Ways of Improving the Hot Workability of High-Alloy Steels, by T. Nakano, H. Takoda.

JAPANESE, per, Tetsu to Hagane, Vol XLVIII, No 11, 1962, pp 1381-1383.

HB 5958

Sci-Materials & Metallurgy
July 63

235,784

Manufacturing Trials on 20/30% Chrome-Nickel Steel
Tubes and Their Properties, Z by Z. Matsunaka,
et al.

JAPANESE, per, Tetsu To Hagane, Vol XLVIII, 1962, No :
PP 1385-85.

HB 6056

Mat & Met
Oct 63

345-226

Effect of Lubricants and Tool Geometry on the Metal
Flow and Extrusion Force in Extrusion of Tubing, by
H. Kojima, T. Suzuki, R. Sato.

JAPANESE, per, Tetsu to Hagane, Vol XLVIII, No 11,
1962, pp 1394-1395.

HB 5843

Sci-Min/Met
Mar 63

Program-Controlled Consumable-Electrode Vacuum-Arc
Melting Furnace, by S. Tokuda, S. Kubota, M. Kosaka.

JAPANESE, Tetsu to Hagane, Vol XLVIII, No 11, 1962,
pp 1410-1411.

HB 5791

Sci-Min/Met
Mar 63

Properties of Valve Steels Melted in the Consumable-Electrode Vacuum-Arc Furnace, by T. Araki, M. Yano, H. Ohashi.

JAPANESE, per, Tetsu to Hagane, Vol XLVIII, No 11, 1962, pp 1411-1413.

HB 5792

Sci-Min/Met
Mar 63

Characteristics of Die Steels Melted in the Consumable-Electrode Vacuum-Arc Furnace, by E. Ohashi, T. Sakajo, M. Ozawa.

JAPANESE, per, Tetsu to Hagane, Vol XLVIII, No 11, 1962, pp 1413-1415.

HB 5793

Sci-Min/Met
Mar 63

Uranium Additions to Low-Carbon Steels. Part I.
by M. Hasegawa, I. Onoda.

JAPANESE, par, Tokai to Kagaku, Vol XLVIII,
No 11, 1962, pp 1438-1439.

HB 5108

Sci-Min/Met
Jan 63

219,986